

Figure 1 Cloud-Cloud distances are computed by using the default "nearest neighbour distance"
<http://www.danielgm.net/cc/>

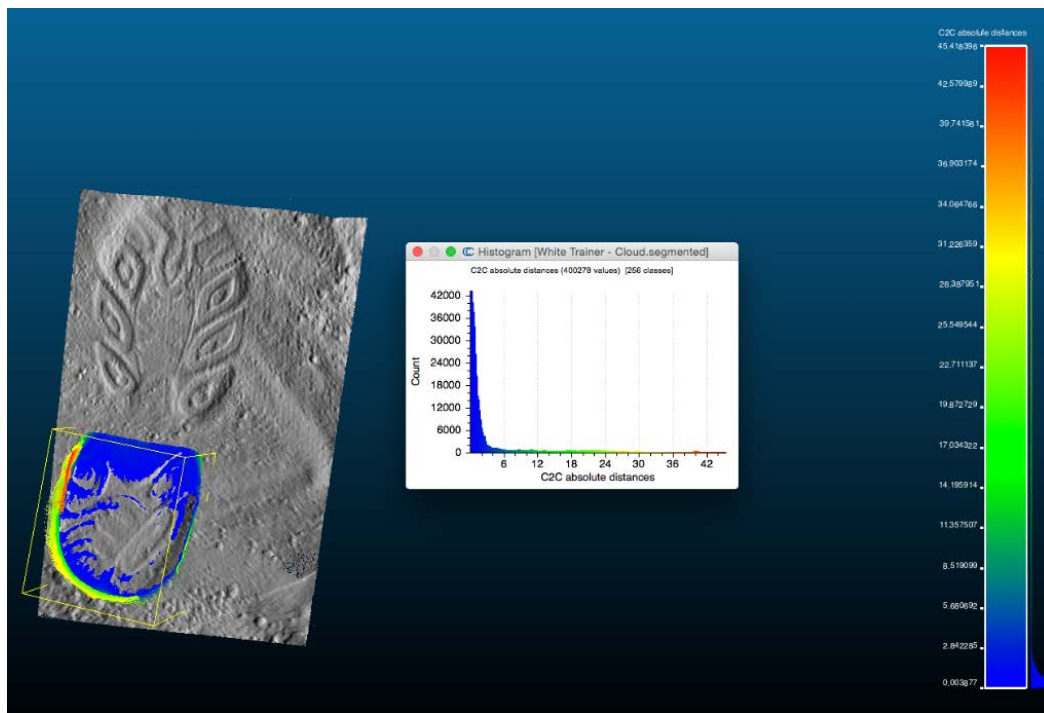


Figure 2 Computed scalar field after alignment

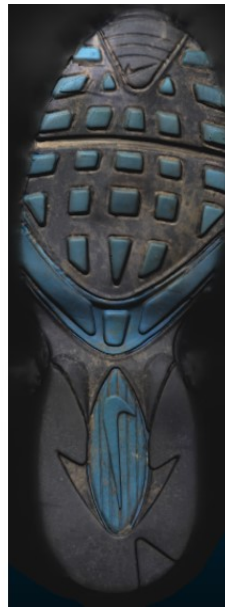


Figure 3, Scanned images of impressions in sand and soil created by a Nike TN trainer size 1.



Figure 4, Scanned images of impressions in sand and soil created by a Timberland boot size 10.

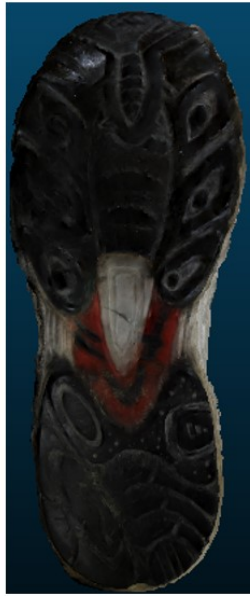


Figure 5, Scanned images of impressions in sand and soil created by a Adidas trainer size 9.

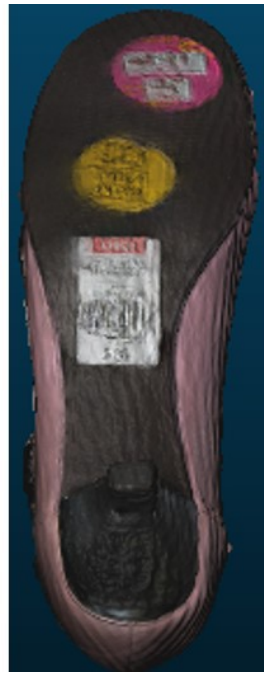


Figure 6, Scanned images of impressions in sand and soil created by an unbranded pink shoe size 6.



Figure 7, Scanned images of impressions in sand and soil created by a Timberland shoe size 10.



Figure 8, Scanned images of impressions in sand and soil created by a Nike TN trainer size 12.



Figure 9, Scanned images of impressions in sand and soil created by a Reebok classic trainer size 10.

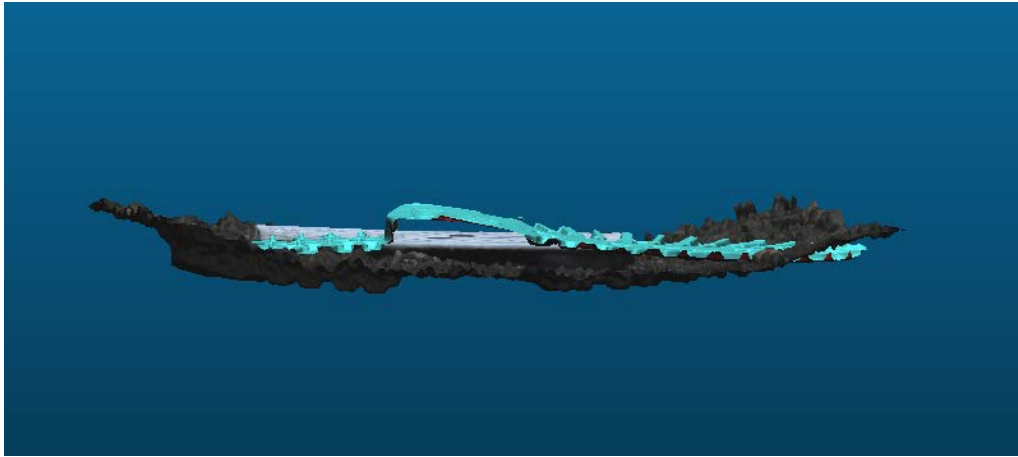


Figure 10, Image shows that an item of footwear will not fully sit onto an impression mark in its entirety.

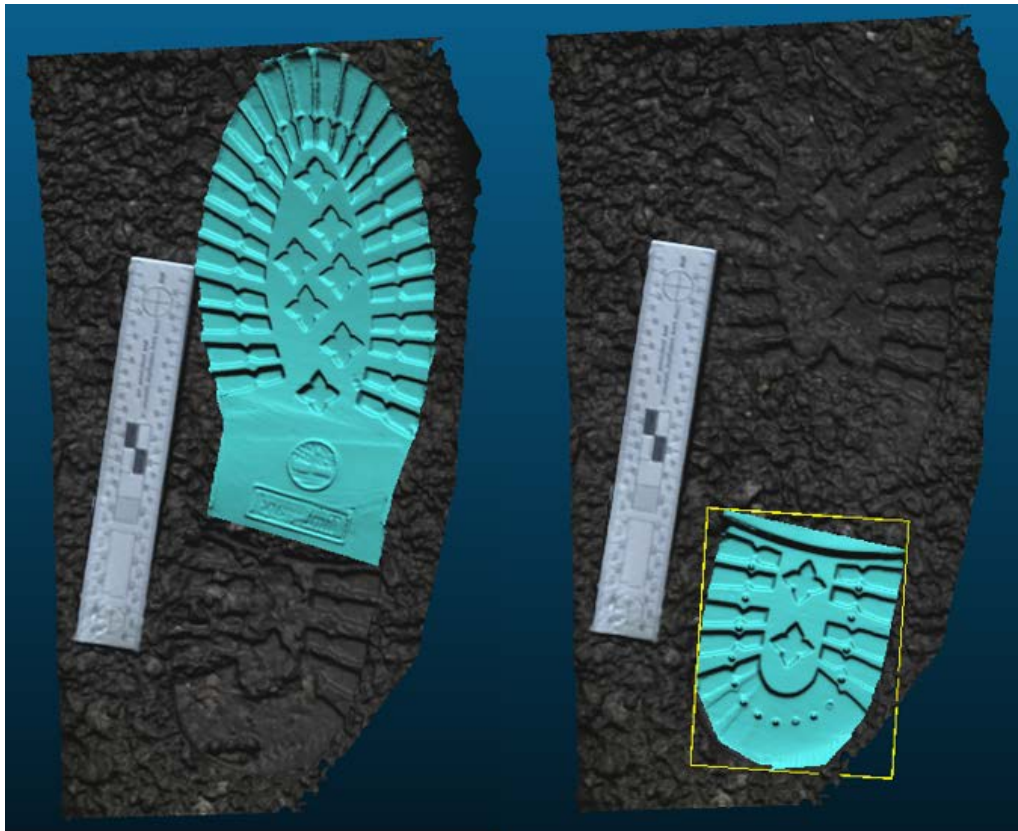


Figure 11, Image shows the shoe has been segmented into 2 sections, and now sits fully on the footwear mark.



Figure 12, A comparison between a 3D print (left) and a cast made using Dental stone (middle), and an image of the footwear that made the mark (right). The highlighted area on the 3D print shows an area that was not recovered using the traditional casting method.